



Anti PTHrP (1-34)-NH₂ Serum

Cat. No. YII-Y201-EX Lot No. 0931120221

Description: This antiserum was raised in a rabbit by immunization with a carrier free PTHrP (1-34)-NH₂ peptide. The product vial contains 50 µL of the titled antiserum, which was obtained by lyophilizing its 0.001M phosphate buffer (pH 7.0, 0.5mL) solution. It can be used for immunoassay, immunohistochemistry or any other immunoreaction with PTHrP.

Immunogen: PTHrP (1-34)-NH₂ (human), carrier free **Host:** Rabbit

Amino Acid Sequence of PTHrP (1-34)-NH₂ (human)¹⁾

1 34

AVSEHQLLHD KGKSIQDLRR RFFLHHLIAE IHTA-NH₂

The amino acid sequences of N-terminal (1-34) of PTHrPs in mammals are 100% conserved.

Product Form: Lyophilized unpurified serum **Size:** 50 µL

Reconstitution: Reconstitute the product with 0.5mL of 0.01M PBS (pH 7.0) to make a 10 fold diluted stock solution. If it is stored in a refrigerator, add moderate antiseptic to the solution (e.g. NaN₃ 0.1%).

Storage: The product will be stable for over one year if it be stored at -20°C to -80°C until opened. Upon reconstitution, the antiserum solution must be stored at 2°C to 8°C and used within one month. Repeated freezing-thawing should be avoided.

Suggested Working Dilution Range: 1:1,000-3,000 (final dilution ~1:21,000) for radioimmunoassay;

1:500-1,000 for immunohistochemistry (frozen or paraffin sections). Optimal dilution should be determined by each laboratory for each application.

Specificity (based on radioimmunoassay): PTHrP (1-34)NH₂ 100%, PTHrP (15-34)NH₂ < 0.05%, PTHrP (1-19) 0%, PTHrP (7-34)NH₂ 25%

Positive Control (immunohistochemistry): Rat mammary gland (lactation period) or mammary tumor.

Species Tested: Rat, dog, mouse^{2~4)}.

REFERENCES:

- 1) L.J. Suva, G.A. Winslow et al., A parathyroid hormone-related protein implicated in malignant hypercalcemia: cloning and expression. *Science* 237: 893-898, 1987
- 2) M. Tokunaga, Y. Ueta et al., PTH-related peptide-like immunoreactivity in the median eminence, paracentricular and supraoptic nuclei in colchicine-treated rats. *Brain Research* 774:216-220, 1997
- 3) A. Konno, A. Sukegawa et al., Immunohistochemistry for parathyroid hormone-related protein (PTHrP) in benign and malignant mammary mixed tumors of dogs with and without hypercalcemia. *Japan Journal of Veterinary Research* 47:155-162, 2000
- 4) N. Amizuka, D. Davidson et al., Signalling by fibroblast growth factor receptor 3 and parathyroid hormone-related peptide coordinate cartilage and bone development. *Bone* 34 (1):13-25, 2004

FOR RESEARCH LABORATORY USE ONLY

DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM

